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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/620,538	07/15/2003	Brian G. Payton	SVL920020046US1/3792P	8432
45728	7590	01/10/2008		
SAWYER LAW GROUP LLP P.O. BOX 51418 PALO ALTO, CA 94303			EXAMINER TIMBLIN, ROBERT M	
			ART UNIT	PAPER NUMBER
			2167	
			NOTIFICATION DATE	DELIVERY MODE
			01/10/2008	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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Office Action Summary

Application No.

10/620,538

Applicant(s)

PAYTON ET AL.

Examiner

Robert M. Timblin

Art Unit

2167

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 09 October 2007.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 10-28 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 10-28 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

DETAILED ACTION

This Office Action corresponds to application 10/620,538 filed 7/15/2003.

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 10/9/2007 has been entered.

Response to Amendment

Claims 10-16, 19-20, 22 and 25-26 have been amended herein. Claim 28 is newly added. Accordingly, claims 10-28 are presently pending.

Claim Rejections - 35 USC § 101

The 35 U.S.C. 101 rejection pertaining to claim 10 has been withdrawn in light of Applicant's amendments.

Claim Rejections - 35 USC § 112

The previous 35 U.S.C 112 rejection is withdrawn in light of Applicant's amendments.

Specification

The specification is objected to as failing to provide proper antecedent basis for the claimed subject matter. See 37 CFR 1.75(d)(1) and MPEP § 608.01(o). Correction of the following is required: the use of "computer-readable medium" is not clearly defined and lacks support from specification.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 10-28 are rejected under 35 U.S.C. 102(e) as being taught by Goldberg et al. (U.S. Patent 6,496,833). In the following citations and drawing references, Goldberg teaches or describes:

With respect to claim 10, A computer system to support a plurality of graphical user interface (GUI) application programming interfaces (APIs), the computer system comprising:

a processor (118, 122) executing a query assist tool (600), the processor (118, 122) being a hardware component within the computer system (figure 1), the query

assist tool (600) comprising a model content provider (604, 606, 202) in communication with a query model (figure 7), the query model (figure 7) comprising a plurality of elements (figure 7, e.g. elements 702, 704) that represents a database statement (e.g. col. 8 line 6-19 and 1404), wherein the model content provider (604, 606, 202) translates the plurality of elements (figure 7, e.g. elements 702, 704) into objects (col. 8 line 12-48; i.e. a statement that is generated into IDL code) that are independent of any type (i.e. the generated IDL code of col. 8 line 20-47 is not associated with an API) of data structure associated with the plurality of GUI APIs (218, 222);

a first content viewer (206) in communication with the model content provider (604, 606, 202), the first content viewer (206) supporting multiple GUI APIs (218, 222), wherein the translated objects (col. 8 line 12-48; i.e. a statement that is generated into IDL code) are passed (204) from the model content provider (604, 606, 202) to the first content viewer (206); and

a second content viewer (208, 214) in communication with the first content viewer (206) and an application written to run (e.g. JDBC; col. 5 line 50-55, col. 8 line 60-61, col. 17 line 48-50) on a specific GUI API (218 or 222) of the plurality of GUI APIs (218, 222), wherein the translated objects (col. 8 line 12-48; i.e. a statement that is generated into IDL code) are passed (210, 212) from the first content viewer (206) to the second content viewer (208, 214) and the second content viewer (208, 214) manipulates the translated objects into one or more types of data structures required by the specific GUI API for use that are usable by the application (col. 5 line 44-60, col. 8 line 20-47 and col. 10 line 6-46; i.e. modifying the code for a JDBC API (col. 10 line 31)).

With respect to claim 11, the computer system of claim 10, wherein the one or more types of data structures comprise tables, trees, or lists (col. 17 line 41-43; i.e. a parameter list).

With respect to claim 12, the computer system of claim 10, wherein the database statement is a structured query language (SQL) statement (col. 8 line 6-11).

With respect to claim 13, the computer system of claim 10, wherein the model content provider (604, 606, 202)

receives information from the application via the first content viewer (206) and the second content viewer (208, 214), the received information being independent of any type of data structure (col. 8 line 12-48; i.e. a statement that is generated into IDL code), and

creates one or more additional elements based on the received information responsive to the received information being an addition to the plurality of elements in the query model (col. 19 line 30-34; i.e. adding a query).

With respect to claim 14, the computer system of claim 10, wherein the model content provider

receives information from the application via the first content viewer (206) and the second content viewer (208, 214), the received information being independent of

any type of data structure (col. 8 line 12-48; i.e. a statement that is generated into IDL code), and

removes one or more of the plurality of elements from the query model responsive to the received information being a deletion of the one or more elements in the query model (col. 19 line 30; i.e. deleting or modifying a query).

With respect to claim 15, the computer system of claim 10, wherein the model content provider (604, 606, 202) provides both data and image information for each of the plurality of elements in the query model to the first content viewer (col. 3 line 18-25).

With respect to claim 16, A method for supporting a plurality of graphical user interface (GUI) application programming interfaces (APIs), the method comprising:

translating a plurality of elements (figure 7, e.g. elements 702, 704) of a query model (figure 7) into objects (col. 8 line 12-48; i.e. a statement that is generated into IDL code) that are independent of any type (i.e. the generated IDL code of col. 8 line 20-47 is not associated with an API) of data structure associated with the plurality of GUI APIs (218, 222), the plurality of elements being translated (i.e. the generated IDL code of col. 8 line 20-47 is not associated with an API) through use of a model content provider (604, 606, 202) in communication with the query model (figure 7), the plurality of elements representing a database statement (e.g. col. 8 line 6-19 and 1404);

passing the translated objects from the model content provider (604, 606, 202) to a first content viewer (206) in communication with the model content provider (604, 606, 202), the first content viewer supporting multiple GUI APIs (218, 222);

passing the translated objects (col. 8 line 12-48; i.e. a statement that is generated into IDL code) from the first content viewer (206) to a second content viewer (208, 214) the second content viewer (208, 214) being in communication with the first content viewer (figure 2, 206) and an application written to run (e.g. JDBC; col. 5 line 50-55, col. 8 line 60-61, col. 17 line 48-50) on a specific GUI API of the plurality of GUI APIs (218, 222); and

using the second content viewer (208, 214) to manipulate the translated objects into one or more types of data structures required by the specific GUI API for use by the application (col. 5 line 44-60, col. 8 line 20-47 and col. 10 line 6-46; i.e. modifying the code for a JDBC API (col. 10 line 31)).

With respect to claim 17, the method of claim 16, wherein the one or more types of data structures comprise tables, trees, or lists (col. 17 line 41-43; i.e. a parameter list).

With respect to claim 18, the method of claim 16, wherein the database statement is a structured query language (SQL) statement (col. 8 line 6-11).

With respect to claim 19, the method of claim 16, further comprising:

receiving information from the application via the first content viewer (206) and the second content viewer (208, 214), the received information being independent of any type of data structure (col. 8 line 12-48; i.e. a statement that is generated into IDL code), and

creating one or more additional elements based on the received information responsive to the received information being an addition to the plurality of elements in the query model (col. 19 line 30-34; i.e. adding a query).

With respect to claim 20, the method of claim 16, further comprising:

receiving information from the application via the first content viewer (206) and the second content viewer (208, 214), the received information being independent of any type of data structure (col. 8 line 12-48; i.e. a statement that is generated into IDL code), and

removing one or more of the plurality of elements from the query model responsive to the received information being a deletion of the one or more elements in the query model (col. 19 line 30; i.e. deleting or modifying a query).

With respect to claim 21, the method of claim 16, further comprising:

providing both data and image information for each of the plurality of elements in the query model to the first content viewer using the model content provider (col. 3 line 18-25).

With respect to claim 22, A computer-readable medium encoded with a computer program for supporting a plurality of graphical user interface (GUI) application programming interfaces (APIs), the computer program comprising computer-executable instructions for:

translating a plurality of elements (figure 7, e.g. elements 702, 704) of a query model (figure 7) into objects (col. 8 line 12-48; i.e. a statement that is generated into IDL code) that are independent of any type (i.e. the generated IDL code of col. 8 line 20-47 is not associated with an API) of data structure associated with the plurality of GUI APIs (218, 222), the plurality of elements being translated (i.e. the generated IDL code of col. 8 line 20-47 is not associated with an API) through use of a model content provider (604, 606, 202) in communication with the query model (figure 7), the plurality of elements representing a database statement (e.g. col. 8 line 6-19 and 1404);

passing the translated objects from the model content provider (604, 606, 202) to a first content viewer (206) in communication with the model content provider (604, 606, 202), the first content viewer supporting multiple GUI APIs (218, 222);

passing the translated objects (col. 8 line 12-48; i.e. a statement that is generated into IDL code) from the first content viewer (206) to a second content viewer (208, 214) the second content viewer (208, 214) being in communication with the first content viewer (figure 2, 206) and an application written to run (e.g. JDBC; col. 5 line 50-55, col. 8 line 60-61, col. 17 line 48-50) on a specific GUI API of the plurality of GUI APIs (218, 222); and

using the second content viewer (208, 214) to manipulate the translated objects into one or more types of data structures required by the specific GUI API for use by the application (col. 5 line 44-60, col. 8 line 20-47 and col. 10 line 6-46; i.e. modifying the code for a JDBC API (col. 10 line 31)).

With respect to claim 23, the computer-readable medium of claim 22, wherein the one or more types of data structures comprise tables, trees, or lists (col. 17 line 41-43; i.e. a parameter list).

With respect to claim 24, the computer-readable medium of claim 22, wherein the database statement is a structured query language (SQL) statement (col. 8 line 6-11)..

With respect to claim 25, the computer-readable medium of claim 22, wherein the computer program further comprises computer-executable instructions for:

receiving information from the application via the first content viewer (206) and the second content viewer (208, 214), the received information being independent of any type of data structure (col. 8 line 12-48; i.e. a statement that is generated into IDL code), and

creating one or more additional elements based on the received information responsive to the received information being an addition to the plurality of elements in the query model (col. 19 line 30-34; i.e. adding a query).

With respect to claim 26, the computer-readable medium of claim 22, wherein the computer program further comprises computer-executable instructions for:

receiving information from the application via the first content viewer (206) and the second content viewer (208, 214), the received information being independent of any type of data structure (col. 8 line 12-48; i.e. a statement that is generated into IDL code), and

removing one or more of the plurality of elements from the query model responsive to the received information being a deletion of the one or more elements in the query model (col. 19 line 30; i.e. deleting or modifying a query).

With respect to claim 27, the computer-readable medium of claim 22, wherein the computer program further comprises computer-executable instructions for:

providing both data and image information for each of the plurality of elements in the query model to the first content viewer using the model content provider (col. 3 line 18-25).

With respect to claim 28, the computer system of claim 10, wherein the computer system is one of a client workstation or a mainframe computer (102, figure 1).

Response to Arguments

Applicant's arguments, see argument A on page 10 of the remarks filed 10/9/2007, with respect to the rejection(s) of claim(s) 10, 16, and 22 under Zielinski have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Goldberg. It is respectfully submitted that Goldberg teaches the claimed "...objects that are independent of any type of data structure associated with the plurality of GUI APIs" as seen in the rejection above. That is, Goldberg teaches a query statement (col. 8 line 6-11) generated into IDL code (col. 8 line 20-47) which may then be modified into a DBMS API specific structure (i.e. col. 10 line 20-47). Further, the IDL code is not associated with any type of data structure associated with the plurality of GUI APIs in Goldberg.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert M. Timblin whose telephone number is 571-272-5627. The examiner can normally be reached on M-F 8:00-4:30.

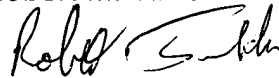
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John R. Cottingham can be reached on 571-272-7079. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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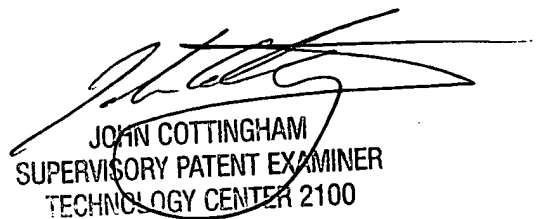
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Robert M. Timblin



Patent Examiner AU 2167



JOHN COTTINGHAM
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